## **CLAIMS**

1	1.	A megasonic cleaning vessel for cleaning a semiconductor wafer,
2		comprising:
3		a top chamber wall;
4		a bottom chamber wall;
5		side walls extending between said top chamber wall and said
6		bottom chamber wall to provide a cleaning chamber;
7		a megasonic transducer provided in said cleaning chamber;
8		a pedestal extending upwardly from said bottom chamber wall for
9		supporting the semiconductor wafer; and
10		an electrical conduit provided through the cleaning vessel for
11		connecting an electrical cable to said megasonic transducer at
12		atmospheric pressure.
1	2.	The megasonic cleaning vessel according to claim 1, further comprising a
2		transducer housing provided in said cleaning chamber, and adapted to
3		hold said megasonic transducer.
1	3.	The megasonic cleaning vessel according to claim 2, wherein the electrica
2		conduit comprises a first electrical cable port provided through said top
3		chamber wall, and a second electrical cable port provided through said
4		transducer housing.
1	4.	The megasonic cleaning vessel according to claim 3, wherein said
2		transducer housing is formed from a top housing wall, a bottom housing
3		wall, and an interior wall and exterior wall extending therebetween, said
4		second electrical cable port provided through said top housing wall.
1	5.	The megasonic cleaning vessel according to claim 4, wherein the interior
2		wall is cylindrical and the exterior wall is cylindrical.

- The megasonic cleaning vessel according to claim 4, wherein said first electrical cable port and said second electrical cable port are joined to form said electrical conduit using a sealing sleeve.
- 7. The megasonic cleaning vessel according to claim 6, wherein the sealing sleeve is cylindrical.
- 1 8. The megasonic cleaning vessel according to claim 1 wherein the cleaning chamber is adapted to receive carbon dioxide .
- The megasonic cleaning vessel according to claim 8 wherein the megasonic transducer is adapted to conduct megasonic energy to the carbon dioxide in the supercritical state.
- 1 10. The megasonic cleaning vessel according to claim 9 wherein the electrical conduit is isolated from the supercritical carbon dioxide.